

**From:** [ANDERSON Jim M](#)  
**To:** [Chip Humphrey/R10/USEPA/US@EPA](#); [MCCLINCY Matt](#); [Rene Fuentes/R10/USEPA/US@EPA](#); [jean.lee@eiltd.net](#)  
**Cc:** [Eric Blischke/R10/USEPA/US@EPA](#); [Dana Davoli/R10/USEPA/US@EPA](#)  
**Subject:** RE: LWG's understanding of the modifications to the Addendum 1 Transition Zone Water Sampling Plan (based on our 9/23/05 meeting)  
**Date:** 09/27/2005 08:39 AM

---

Chip & Eric,  
The summary of changes in Keith's e-mail below accurately match the changes I noted in our meeting last Friday.

James M. Anderson  
DEQ Northwest Region  
Portland Harbor Section  
Phone (503) 229-6825  
Fax (503) 229-6899

-----Original Message-----

From: [Humphrey.Chip@epamail.epa.gov](mailto:Humphrey.Chip@epamail.epa.gov)  
[mailto:[Humphrey.Chip@epamail.epa.gov](mailto:Humphrey.Chip@epamail.epa.gov)]  
Sent: Monday, September 26, 2005 11:44 AM  
To: ANDERSON Jim M; MCCLINCY Matt; [Fuentes.Rene@epamail.epa.gov](mailto:Fuentes.Rene@epamail.epa.gov);  
[jean.lee@envintl.com](mailto:jean.lee@envintl.com)  
Cc: [Blischke.Eric@epamail.epa.gov](mailto:Blischke.Eric@epamail.epa.gov); [Davoli.Dana@epamail.epa.gov](mailto:Davoli.Dana@epamail.epa.gov)  
Subject: Fw: LWG's understanding of the modifications to the Addendum 1 Transition Zone Water Sampling Plan (based on our 9/23/05 meeting)

Please check the list below of the TZ sampling modifications from our meeting last Friday, and let Eric and I know if it accurately reflects our direction to the LWG at the meeting.

Chip

----- Forwarded by Chip Humphrey/R10/USEPA/US on 09/26/2005 11:36 AM -----

Keith Pine  
<[kpine@integral-corp.com](mailto:kpine@integral-corp.com)>

09/26/2005 11:13 AM

To  
Chip Humphrey/R10/USEPA/US@EPA,  
Eric Blischke/R10/USEPA/US@EPA  
Cc  
"Jim McKenna ('Jim McKenna ')"  
<[mckenj@portptld.com](mailto:mckenj@portptld.com)>,  
[rjw@nwnatural.com](mailto:rjw@nwnatural.com), "Rick Applegate (Rick Applegate)"  
<[ricka@bes.ci.portland.or.us](mailto:ricka@bes.ci.portland.or.us)>,  
Valerie Oster  
<[voster@anchorenv.com](mailto:voster@anchorenv.com)>, Todd Martin  
<[tmartin@integral-corp.com](mailto:tmartin@integral-corp.com)>, Bill Locke  
<[wlocke@integral-corp.com](mailto:wlocke@integral-corp.com)>, Christine Hawley  
<[chawley@integral-corp.com](mailto:chawley@integral-corp.com)>  
Subject  
LWG's understanding of the modifications to the Addendum 1 Transition Zone Water Sampling Plan (based on our 9/23/05 meeting)

Eric, Chip -

Pursuant to our meeting on Friday September 23, 2005, this email lists the LWG's understanding of the modifications to the Addendum 1 Transition Zone Water Sampling Plan (Integral 2005a)1 that were agreed upon by the EPA (and its partners) and the LWG. These modifications are changes required by the EPA and its partners to the sampling plans specified for the four sites (Gasco, Siltronic, Exxon, and Arkema) in Addendum 11 prior to proceeding with the sampling.

1. Gasco Site: A 30-cm depth sample will be collected from location GSC6-D.
2. Siltronic Site: Samples will not be collected for analysis of herbicides in order to reduce the total volume of transition zone water required for analysis and, thereby, reduce the number of peepers required for this site.
3. Exxon Site:  
- Shallow (30-cm) and deep (90 to 150 cm)

samples will be collected from location EM1-A. In the event that the shallow sample depth does not produce >20 mL/min during purging with the Trident Probe, the shallow sample will be collected using small volume peepers.

- A deep (90 to 150 cm) will be collected at location EM2-A in addition to the shallow sample already planned for this location.

- Shallow (30-cm) and deep (90 to 150 cm) samples will be collected from location EM2-C, but only if these locations have conditions that support sampling by the Trident Probe (i.e., sampling rates of >20 mL/min can be achieved).

- Shallow (30-cm) and deep (90 to 150 cm) samples will be collected from location EM4-C. In the event that the shallow sample depth does not produce >20 mL/min during purging with the Trident Probe, the shallow sample will be collected using small volume peepers.

- As prescribed in the FSP (Integral 2005b)2, the collection of all of the deep samples will be attempted using the Trident Probe. If a given location does not produce >20 mL/min during purging with the Trident Probe, the deep sample will not be collected from the location.

- Location EM11-B will be moved to coincide with the location of the Round 2 core C179.

4. Arkema Site:

- Perchlorate will be added to the list of analytes for the transition zone water samples associated with the acid plant area.

- VOCs will be the list of analytes for the transition zone water samples for locations R2-CP-1 and CP-06-A.

It is LWG's understanding that with the acceptance of the above changes to the sampling plan described in Addendum 1 (Integral 2005a)1, the EPA and its partners will grant conditional approval for the LWG and it's contractors to proceed with the transition zone water sample collection at Gasco, Siltronic, Arkema, and Exxon according to the methods and provisions prescribed in the Transition Zone Water FSP (Integral 2005b)2 and Supplement to Addendum 2 to the Quality Assurance Project Plan (Integral 2005c)3. Because the transition zone water sampling is scheduled to begin Monday October 3, 2005, it is requested that written conditional approval be provided to the LWG no later than Thursday September 29, 2005.

1 Integral 2005a. Portland Harbor RI/FS Transition Zone Water Field Sampling Plan. Prepared for the Lower Willamette Group, Portland, OR. Integral Consulting Inc., Mercer Island, WA.

2 Integral 2005b. Portland Harbor RI/FS Transition Zone Water Field Sampling Plan. Prepared for the Lower Willamette Group, Portland, OR. Integral Consulting Inc., Mercer Island, WA.

3 Integral. 2005c. Portland Harbor RI/FS Supplement to Addendum 2 to the Quality Assurance Project Plan. Prepared for the Lower Willamette Group, Portland, OR. Integral Consulting Inc., Mercer Island, WA.

Please direct any technical questions to Todd Martin.

Regards,  
Keith

---

Keith Pine, P.G.

Integral Consulting, Inc.  
7900 SE 28th Street, Suite 300  
Mercer Island, WA 98040  
tel. (206) 230-9600 ext. 26  
fax. (206) 230-9601  
cell (206) 940-7750  
kpine@integral-corp.com  
www.integral-corp.com

This electronic message contains information that is a confidential and/or privileged work product prepared in anticipation of litigation. The information is intended to be for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying, distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 230-9600 ext. 26, or by electronic mail at kpine@integral-corp.com.